FEATURE 232 – SURFACE LAYERS

Roadway Side	Offsets	LRS Package	Feature Type	Interlocking	Secured
C/R/L	No	No	Length	No	Yes
Responsible Party for Data Collection		District Planning			

Definition/Background: Records the limits of the friction course layer, pavement surface thickness, and pavement surface layer.

Note: Codes for this feature are updated by the State Materials Office. New codes are added as needed for new materials that have been approved for usage.

FRICTCSE – FRICTION COURSE

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
49		Pavement Management, HPMS	All roadways.	N/A	N/A

Definition/Background: The friction course is the layer of non-skid surface on top of the surface type or structural course.

How to Gather this Data: In office – It may be found on construction plans. Enter code 0-9. On a divided highway, obtain the friction course for each side separately.

NOTE: *Code 0 – None if no friction course exists, i.e. on concrete roadways.*

Special Situations: Call the project manager of any project when two or more type materials are indicated on construction plans.

Codes	Descriptions	Codes		Codes	Descriptions
0	None	**3**	Type 3	**7**	Type 9.5
1	Type 1	**4**	Type 4	**8**	Type 12.5
2	Type 2	**5**	Type 5	**9**	Other
3	Type 3	**6**	Type 6		

SURFLXTH – PAVEMENT SURFACE THICKNESS (X=1-7)

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
56-58		Pavement Management, HPMS	HPMS standard samples on all roadways functionally classified as interstate, other freeways and expressways, and other principal arterials	N/A	N/A

How to Gather this Data: Record the surface layer thickness to the nearest inch. SURFL1TH corresponds to the bottom surface layer; SURFL2TH is the next to the bottom layer, and so forth.

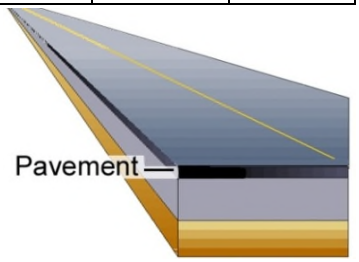
NOTE: *It is not necessary to code all decimal places.*

Value Pavement Surface Thickness: 4 Bytes: XX.XX – Enter 01.00-16.00 to nearest inch

SURFLAYX – PAVEMENT SURFACE LAYER (X=1-7)

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
49		Pavement Management, HPMS	HPMS standard samples on all roadways functionally classified as interstate, other freeways and expressways, and other principal arterials	N/A	N/A

Definition/Background: The surface is the composite of the roadway designed to be used for the driving surface. This composite can be made from many materials of different composition and have numerous layers.



How to Gather this Data: Identify and record the corresponding composite material code from the list below. SURFLAY1 corresponds to the bottom surface layer, SURFLAY2 is the next to the bottom layer, and so on. Construction plans, Pavement Management Office, county and local engineers.

Special Situations: If the pavement surface layer information cannot be determined nor collected due to lack of construction plans or other resources, then code UNKW-unknown. Do not make up data.

Codes	Descriptions	Codes	Descriptions
ARMI	Asphalt Rubber Membrane Interlaced	SP2C	12.5 Superpave Coarse Grade
BIND	Asphalt Binder Course	SP2F	12.5MM Superpave Fine Graded
BRCK	Brick Pavers	**SP3C**	19.0MM Superpave Coarse Graded
CONC	Portland Cement Concrete	**SP3F**	19.0MM Superpave Fine Graded
CRL	Crack Relief Layer	**ST**	Surface Treatment
FAB	Pavement Overlay Fabric	**S1**	Type S-I Asphaltic Concrete
FC	Friction Course	**S2**	Type S-II Asphaltic Concrete
FC1	Friction Course 1	**S3**	Type S-III Asphaltic Concrete
FC2	Friction Course 2	**T1**	Type I Asphaltic Concrete
FC3	Friction Course 3	**T2**	Type II Asphaltic Concrete
FC4	Friction Course 4	**T3**	Type III Asphaltic Concrete
FC5	Friction Course 5	**UNIM**	Unimproved Surface
FC5B	Friction Course 5 Bonded	**UNKW**	Unknown
FC6	Friction Course 6	**WC**	Wearing Course
F12M	Friction Course 12.5 Modified	**WC1**	Wearing Course 1
F125	Friction Course 12.5	**WC2**	Wearing Course 2
F95	Friction Course 9.5	**WC3**	Wearing Course 3
F95M	Friction Course 9.5 Modified	**WC4**	Wearing Course 4
S	Type S Asphaltic Concrete	**WC5**	Wearing Course 5
SAHM	Sand Asphalt Hot Mix	**WC6**	Wearing Course 6
SP1C	9.5MM Superpave Coarse Graded	**WC7**	Wearing Course 7
SP1F	9.5MM Superpave Fine Graded	**WC8**	Wearing Course 8

Examples:

Example of coding SURFLAY1 = S3

Friction Course	1 INCH	FC - 4
Surface layer 1	3 INCHES	Type = S3
Base		

After the friction course is milled off, a new 4" surface layer and a new friction course are applied

Friction Course	1 INCH	FC - 6
Surface Layer 2	4 INCHES	Type = S3
Surface Layer 1	3 INCHES	Type = S3
Base		